

FIG. 1

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graph TD
    202[Serially receive a plurality of forward messages from source 102, each addressed to one of a plurality of destinations 108.] --> 204[Receive a plurality of availability signals X from arbiter 106, each availability signal indicating that one of the destinations is available to accept a forward message.]
    204 --> 206[Simultaneously sending a forward message to each available destination.]
    206 --> 208[Simultaneously receive, after a predetermined period of time, a plurality of reverse messages from the destinations, each reverse message corresponding to one of the forward messages simultaneously sent to an available destination.]
    208 --> 210[Serially send the reverse messages to the source.]
  
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202 Serially receive a plurality of forward messages from source 102, each addressed to one of a plurality of destinations 108.

204 Receive a plurality of availability signals X from arbiter 106, each availability signal indicating that one of the destinations is available to accept a forward message.

206 Simultaneously sending a forward message to each available destination.

208 Simultaneously receive, after a predetermined period of time, a plurality of reverse messages from the destinations, each reverse message corresponding to one of the forward messages simultaneously sent to an available destination.

210 Serially send the reverse messages to the source.

FIG. 2

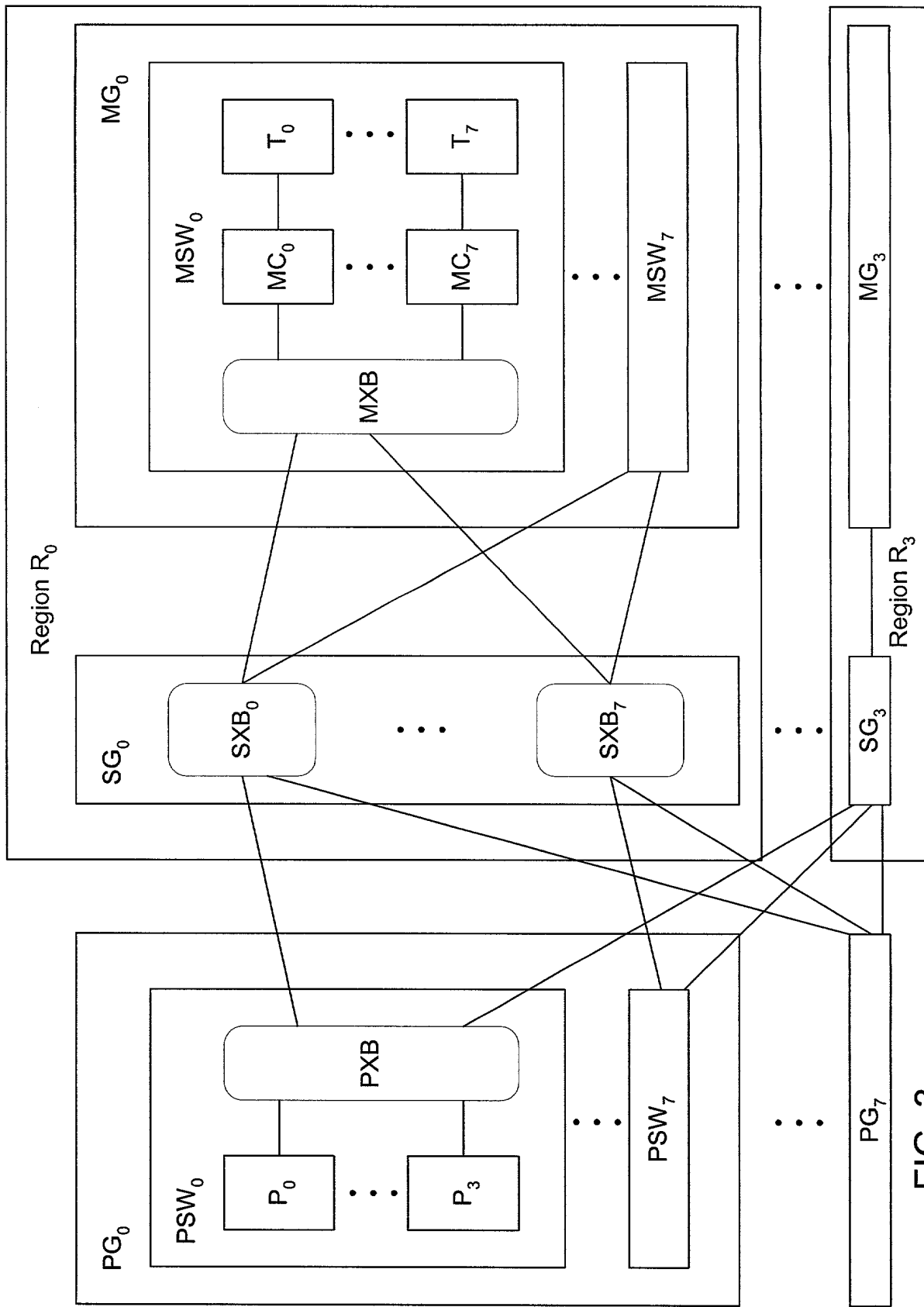


FIG. 3

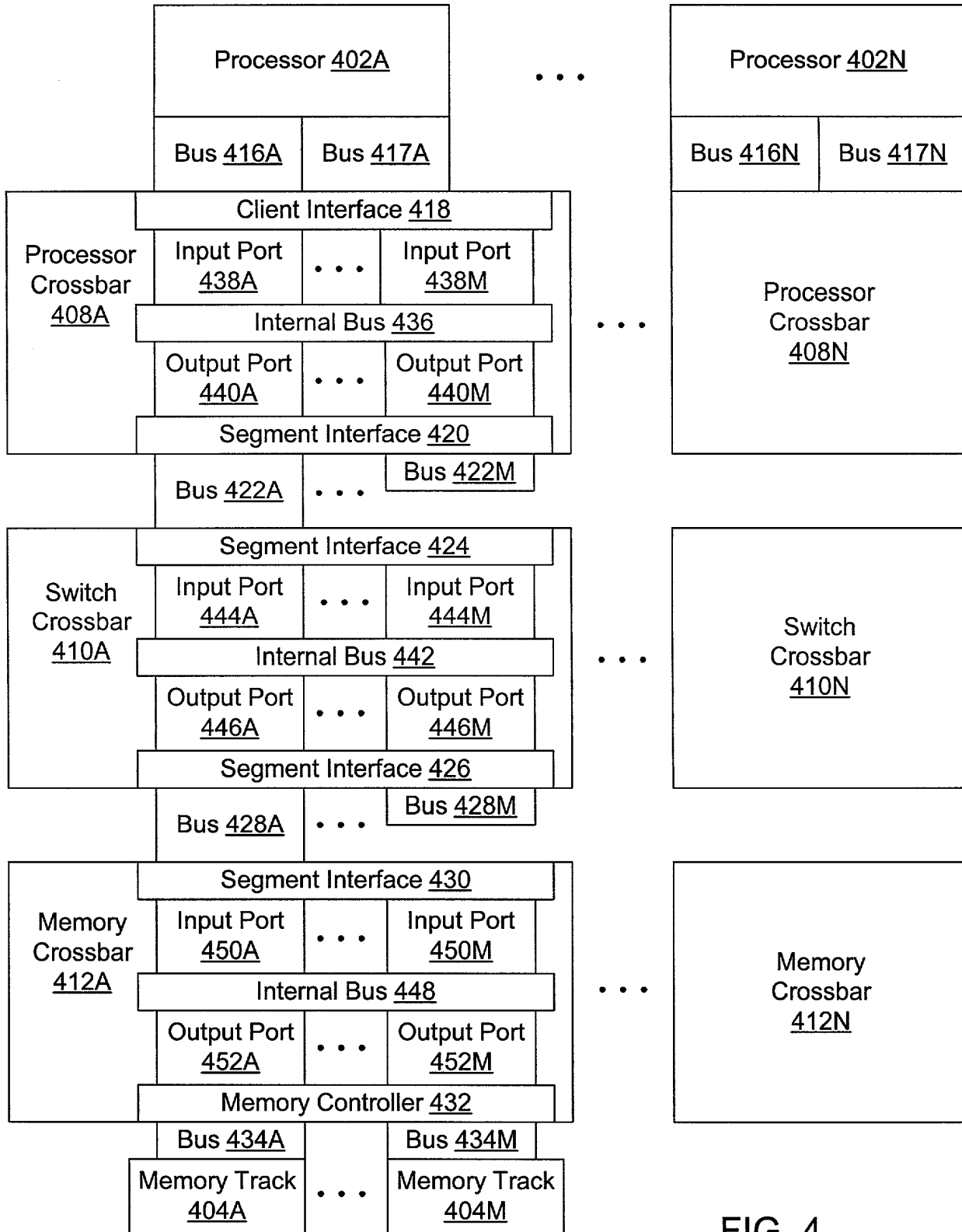


FIG. 4

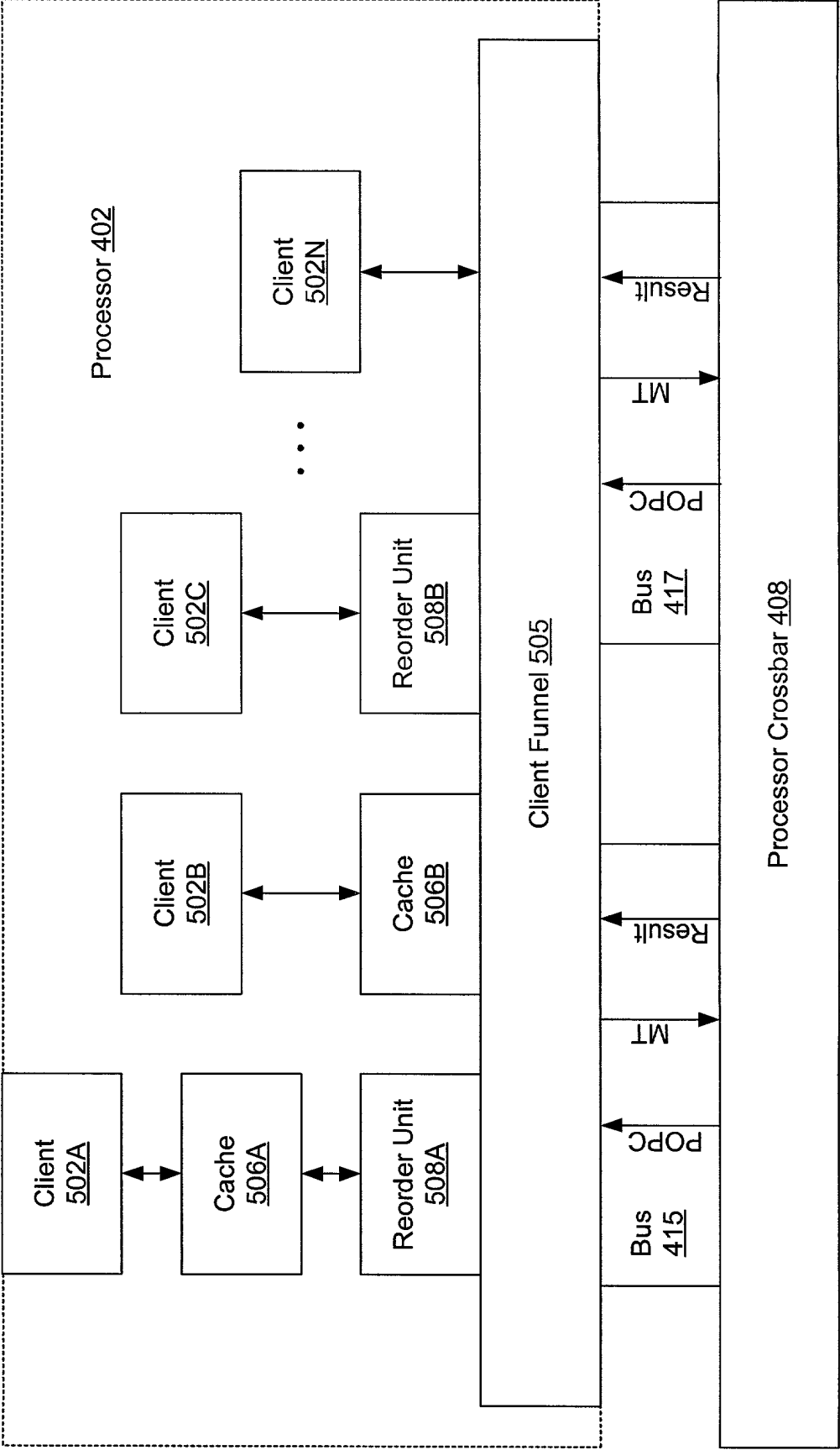


FIG. 5

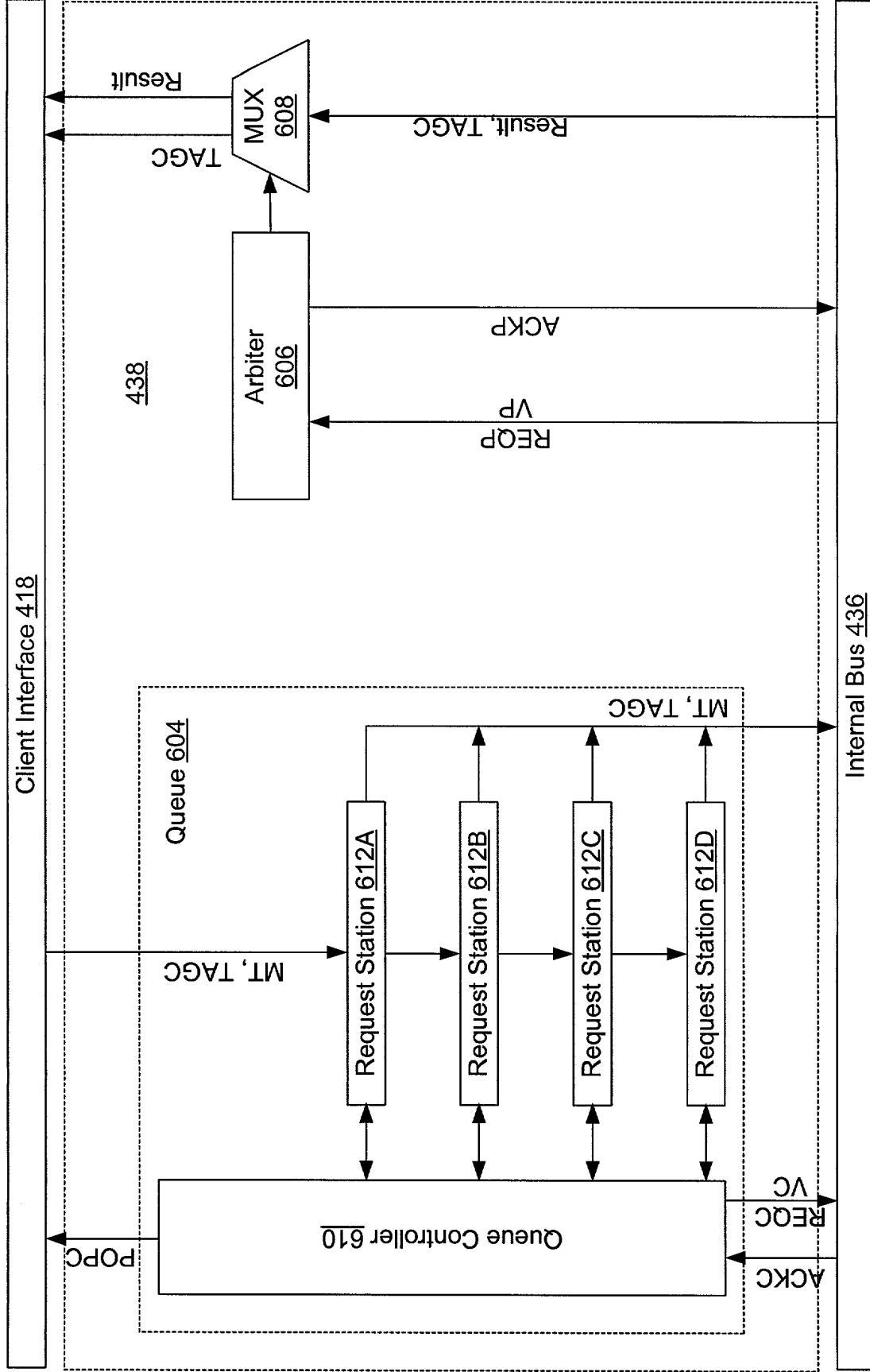


FIG. 6

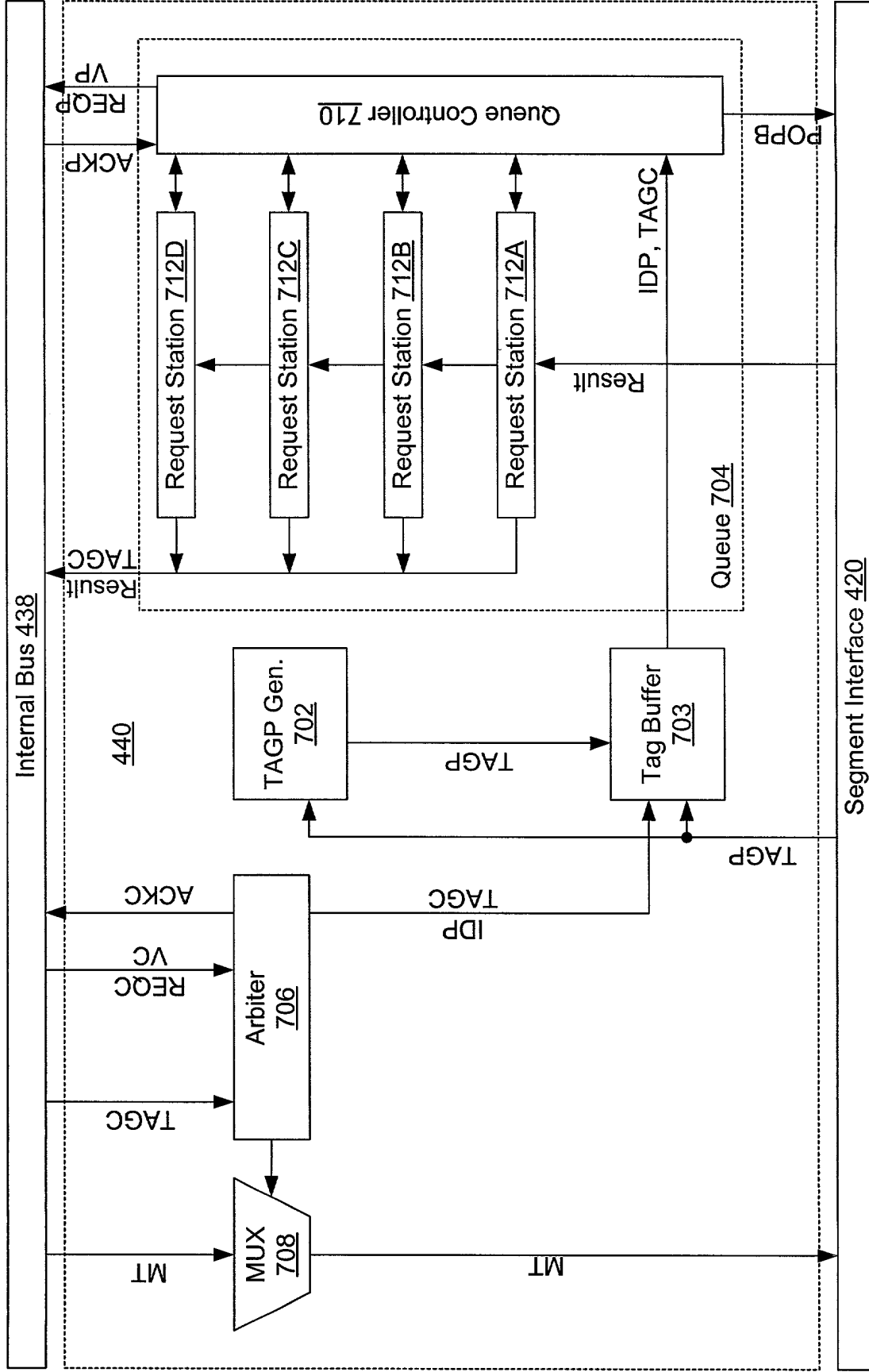


FIG. 7

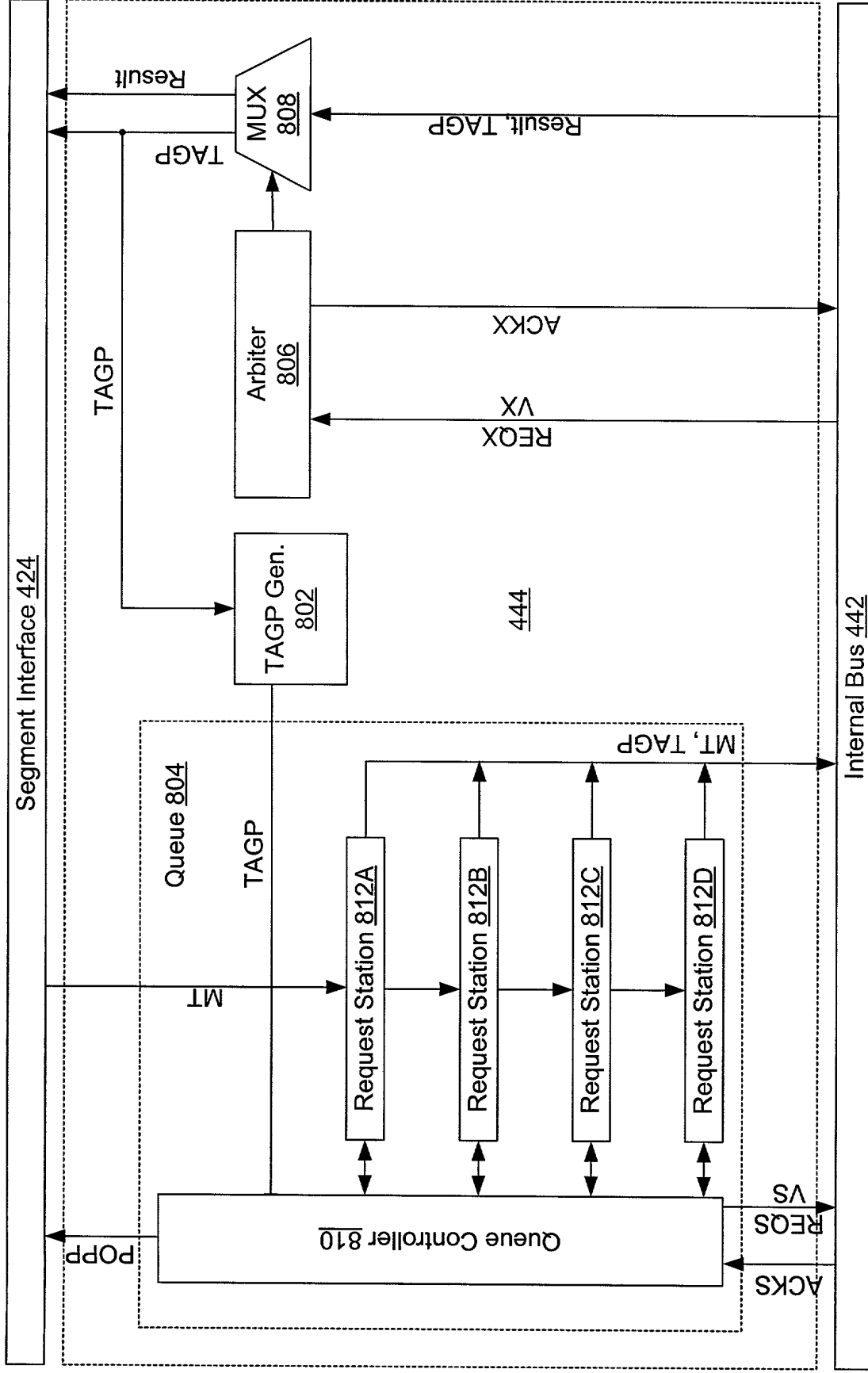


FIG. 8



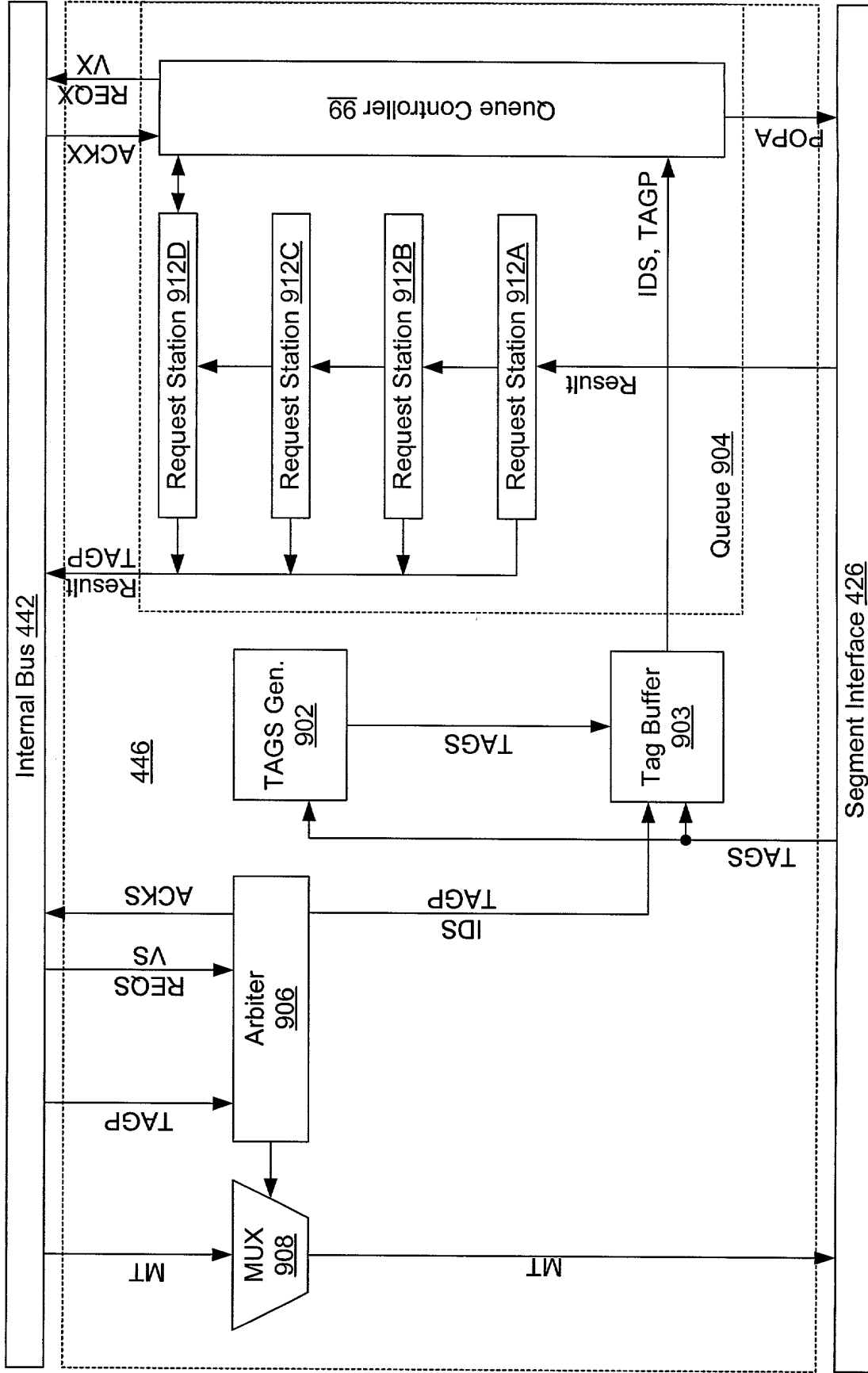


FIG. 9

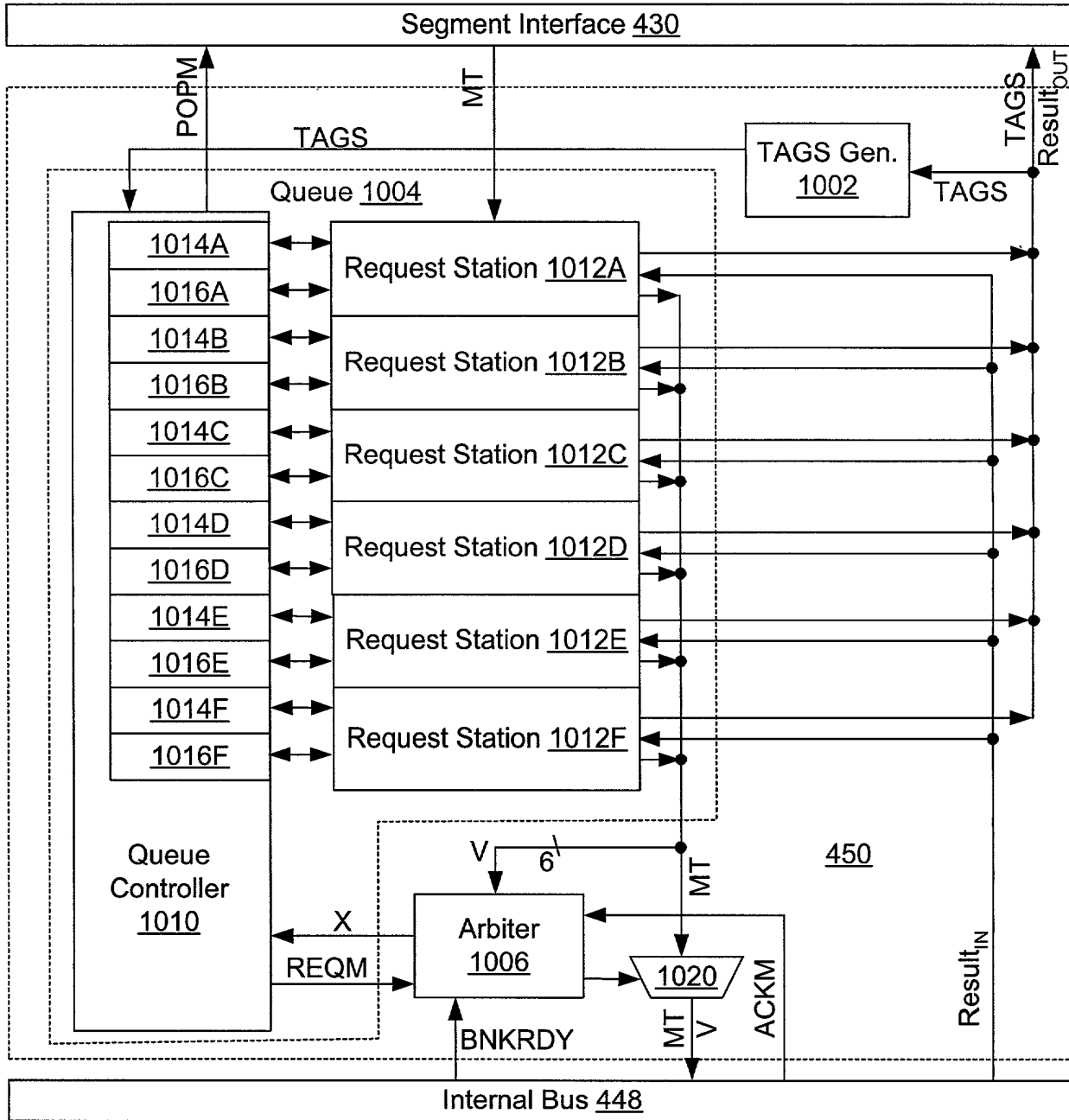


FIG. 10

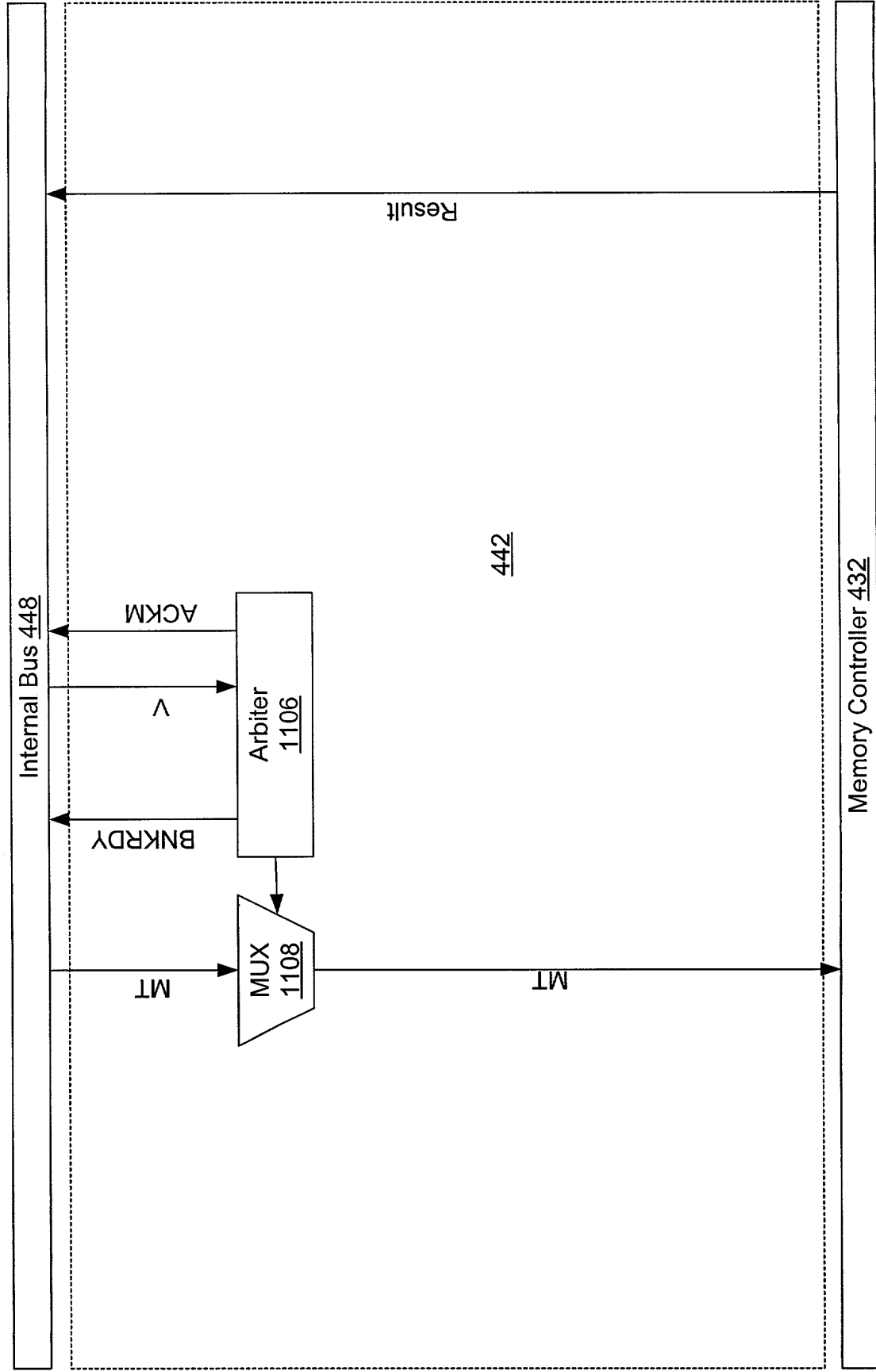


FIG. 11

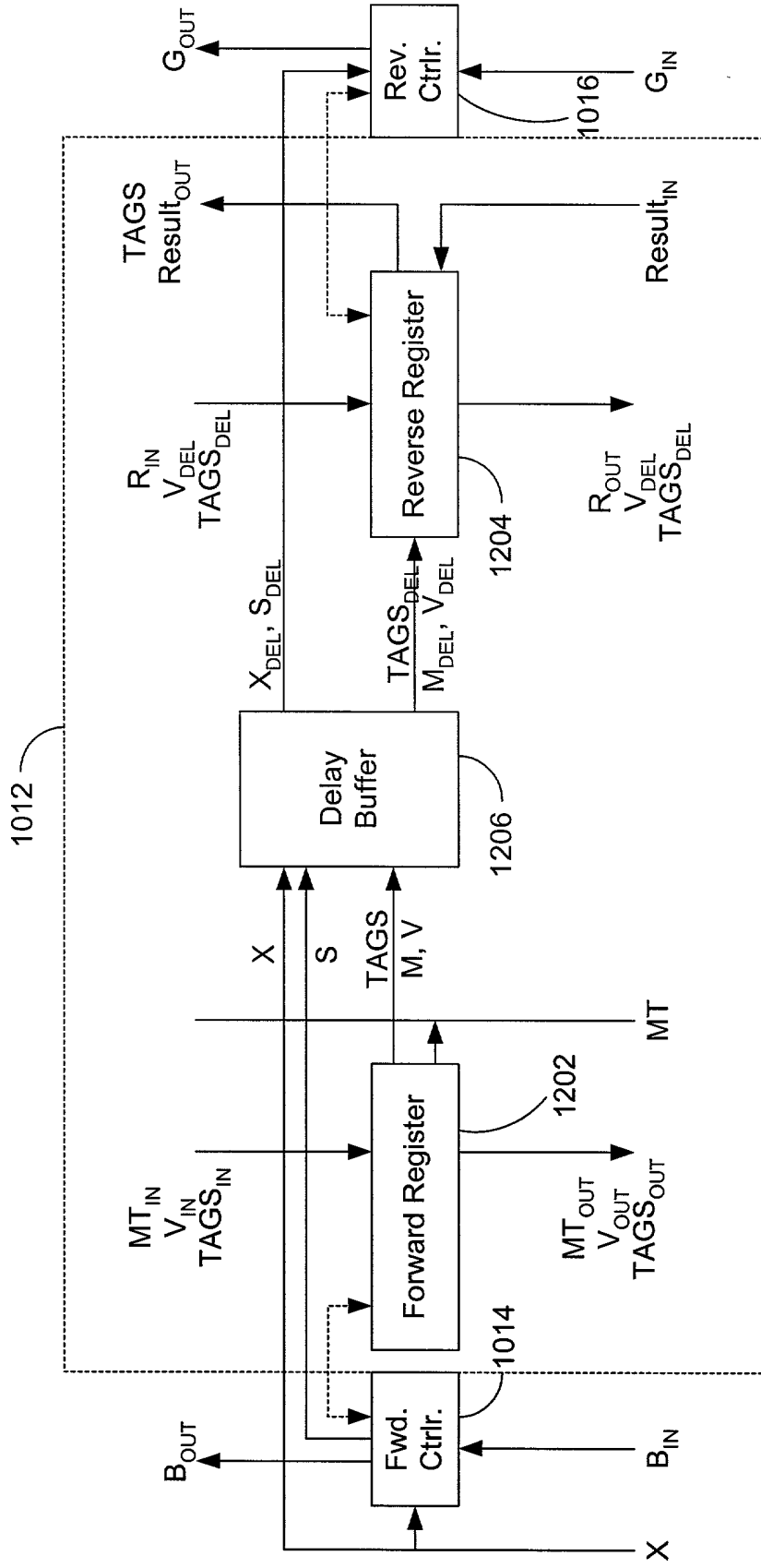


FIG. 12

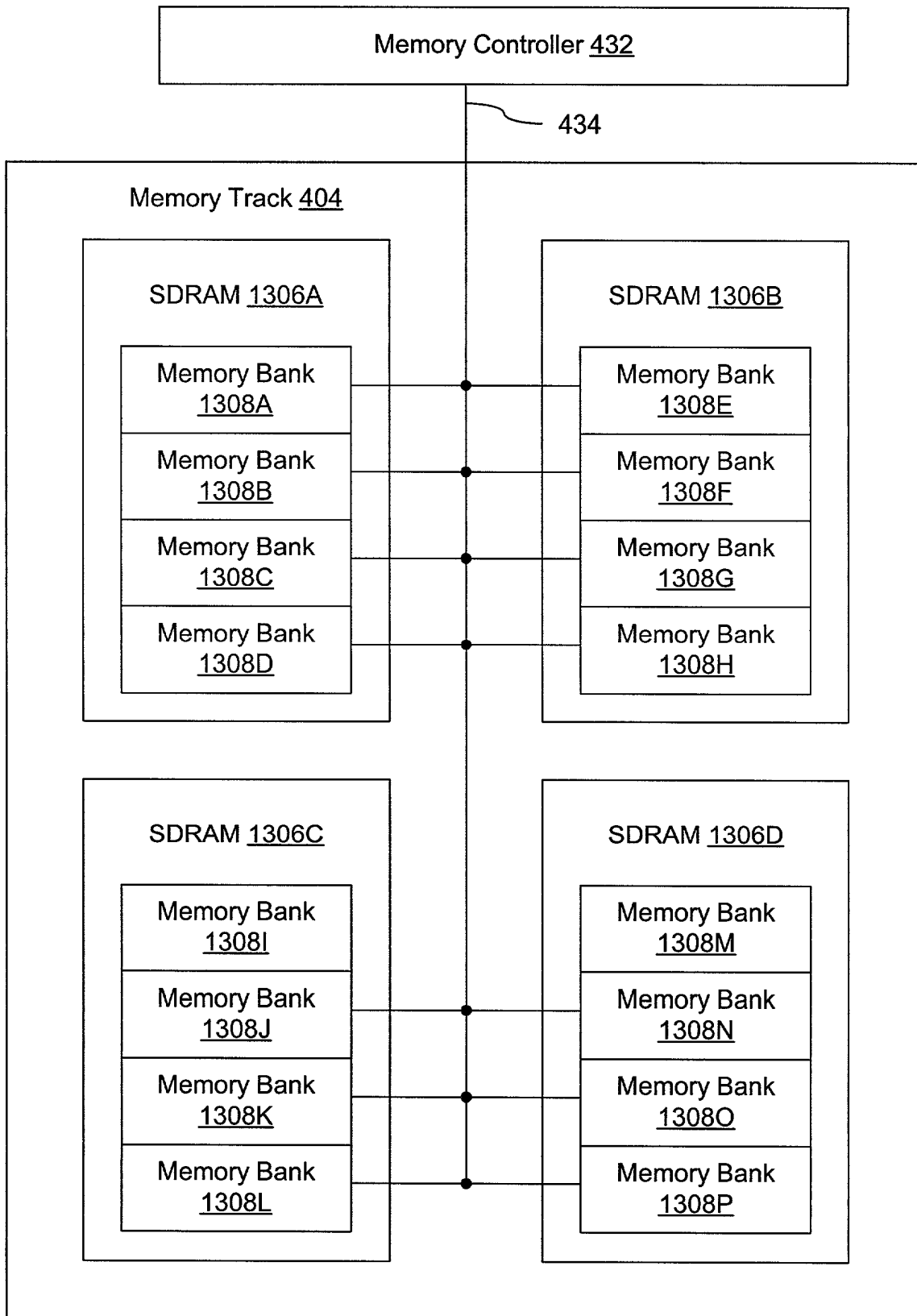


FIG. 13

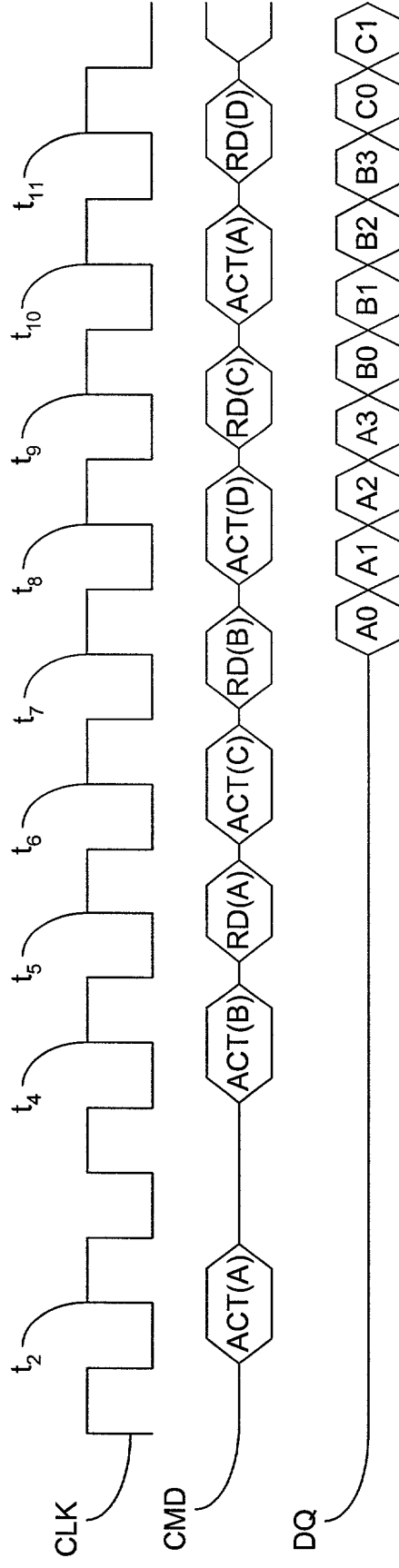


FIG. 14

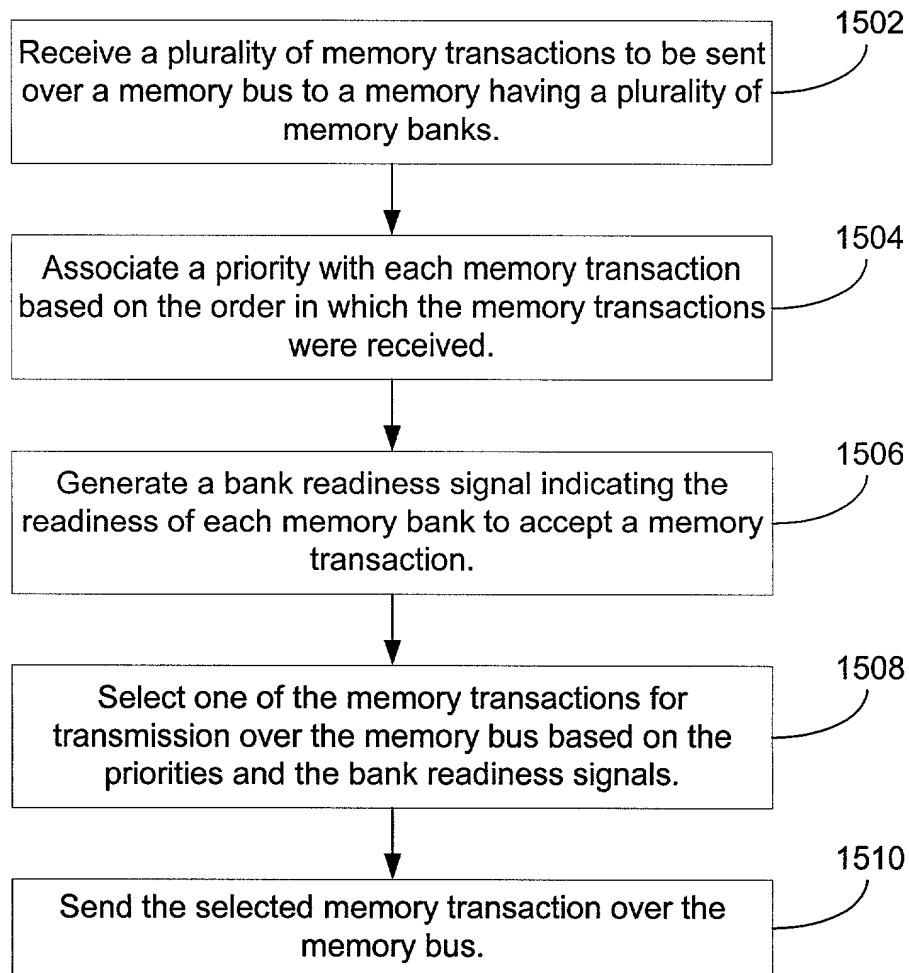


FIG. 15

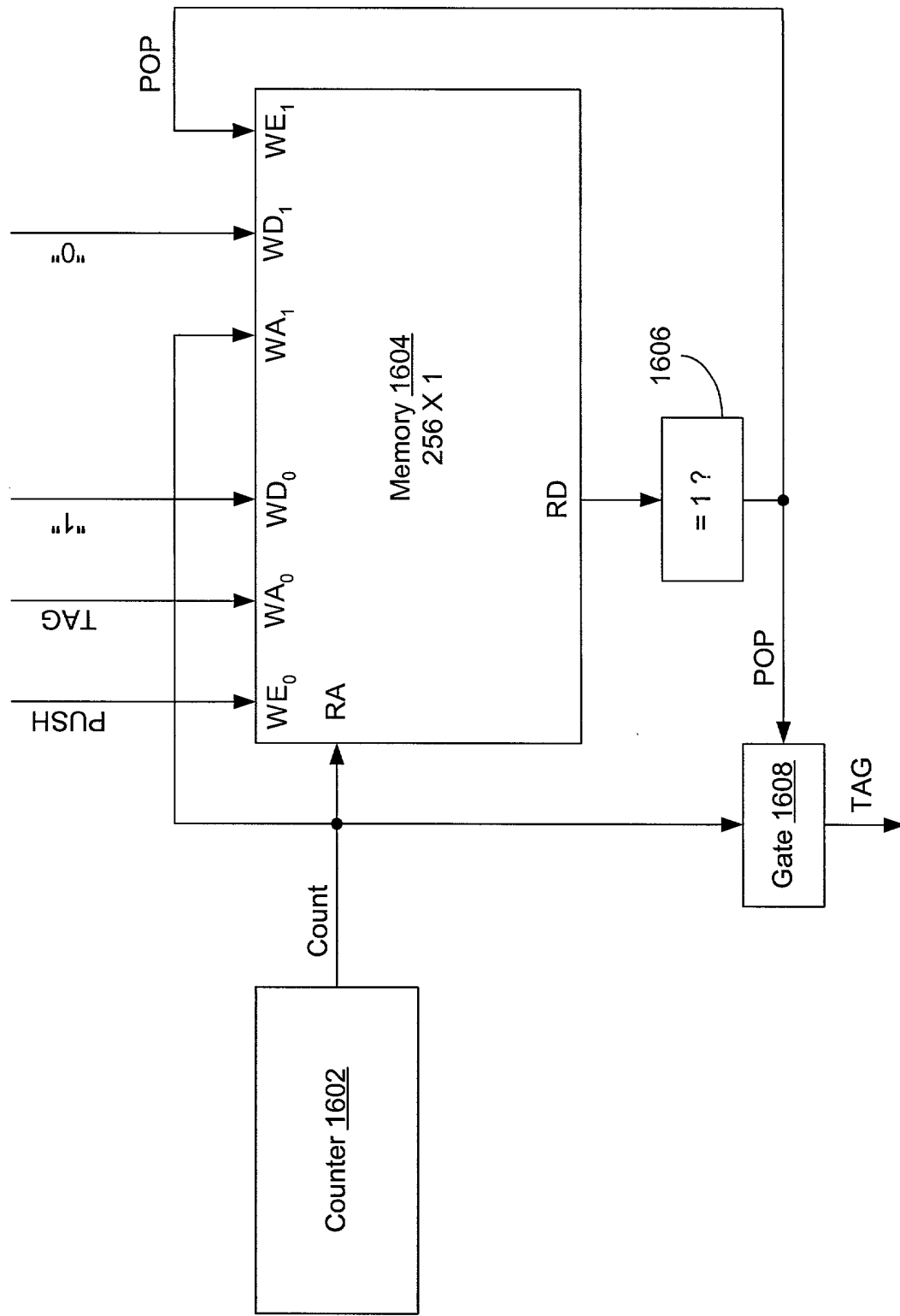


FIG. 16



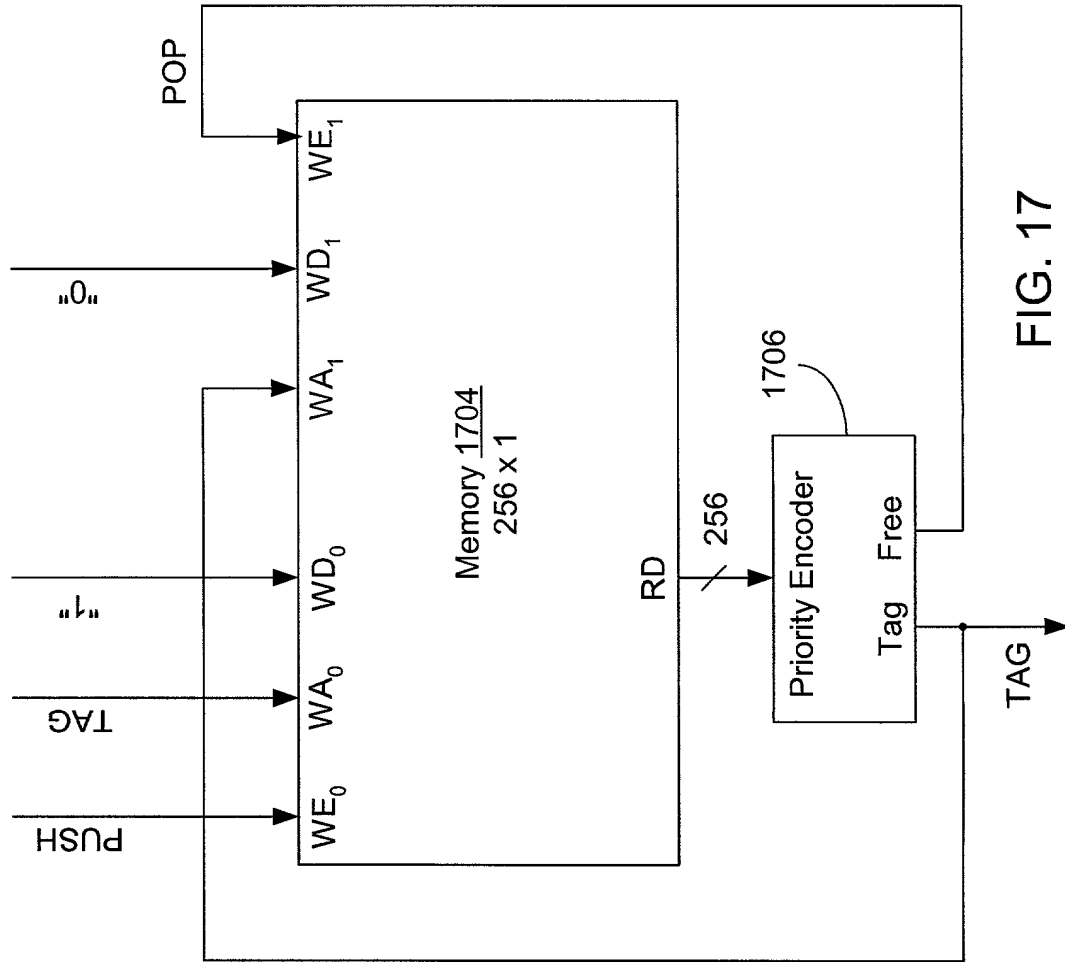


FIG. 17